Expension Systems, warrants the DataFlyer interface and chassis against detects for a period of one year from the date of original (retail) purchase. Expansion Systems will repair or (at its option) replace this product during the warranty period provided the product has not been damaged by accident, abuse or misben

Hard disk drives will be covered with a separate warranty provided with the unit,

The foregoing constitutes the sole warranty of Expansion Systems and all warranties of merchantability and fitness are hereby excluded to the extent permissible by law; or if such exclusion is prohibited by any federal, state, or municipal law which cannot be preempted, are hereby limited to ONE YEAR from original retail purchase of this product. Incidental or consequential damages resulting from a breach of any applicable express or implied warranties are hereby excluded.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

Expansion Systems 44862 Osgood Road Fremont CA 94539 USA



USERS MANUAL

DataFlyer 500 DataFlyer 1000 DataFlyer 2000





TABLE OF CONTENTS

	Pag	90
INTRODUCTION		. 1
PLEASE READ THIS		. 1
Quick Format Instructions		. 1
INSTALLING THE HARDWARE		
Configuring the DataFlyer		
A500 DataFlyer		2
A2000 DataFlyer		3
Installed as a Hard Card,		3
Installed in the Drive Bay.		4
Installing the Interface	1131	4
FORMATTING THE DRIVE	1 - + 1	. T
Running the DataFlyer Installation Program		ς.
USING YOUR DATAFLYER		
General Information on Hard Drives		7
Do's and Don'ts of Using a Hard Drive		A
Autobooting	,-	À
Installing Software onto your DataFlyer		A
Cleaning Up the Screen		10
TROUBLESHOOTING		14
General Hints		10
General Problems		
Software Problems		12
Hardware Problems	3 16 20	12
CUSTOMIZED CONFIGURATIONS		1 104
AMAXII Driver		13
Formalling MulitpleDrives		14
Manually Formatting the Drive		14
Surviving a Crashed Partition		14
How to Modify Mountlist		15
OPTIONS		
Memory board		9
Power Supply		9
Hard Card Rails		9
Cábles		9
POLICY INFORMATION		
Registration		16
Reterns		17
Customar Service		17
GENERAL INFORMATION		
Remove Format Icons	k	17
SCSI Cable		17
Future Upgrades		18

INTRODUCTION

Congretulations on your purchase of the DetaFiver SGSI controller. The DataFiver offers great performance at a cost attractive to the price conscious customer. The all new autobooting controller features speed aquel to 80% of the worlds controllers at a better 'Rute per Buck". The DeteFlyer recognizes elmost eny SCSI drive and has the ability to quetomize the formshing if required. The OptaFiver was also designed to be easy to use. The AUTO INSTALLING software takes the heaste out of formation the hard drive heasten the DataFiyer does it all for you suformatically. If you need more memory the DetaFiver run accept a memory board with up to 8 megabytes that just plugs auto the memory header located on the printed circuit board. Adding the Deteriver to your Amige system are elly enhances the storage capacity and overall performance of the system. With these new capabilities we wish you great computing.

PLEASE READ THIS

Quick Format testructions Same people have installed this type of hardwere and we masklp all the reading. If you have instelled the DataFlyar into the A2000 or onto the A500 and era ready to format the DataFiyet, please do the following:

- 1. Make a copy of the DataFiver Auto-Install disk 2. Boot the Amige with the copy in DFO; WAIT FOR 60 SECOND DELAY after turning
- on the power. 3. Select the tratell-HD loan in the Workbench screen.
- 4. Answer the questions
- 5, Ramove the disk in dfQ; and reboot your machine,

Your DeteFlyer will have autobooted and you are ready to install your programs. See the sector Using your DeteFiver.

INSTALLING THE HARDWARE

Configuring the Date Fiver

There are 5 jumpers that are used to configure the Detailver. The descriptions and their selvings are shown below:

1.3 . KickStert 1.2 or 1.3 lumper. The factory as hing is installed. It you have AutoBoot FjOM Ray, 2.0 and wish to have a non autobooting drive using KickStart 1.2 remove this jumper, +5 ENn+5 Volta Enabled. When this sumper is instelled the DeteFiver receives de power

from the A500 expansion bue. When removed the power is from the memory board.

SEN=Sense header. This later a connector from the optional power supply. It provides the 5V from the A500 to turn on the optional power supply.

C∞ Config lumour. This should the config at and config out (plas 11 and 12) on the 86 pla bus. The shorting of these plus passes the configuration eignal to the next stot. This tumper is to remain in place unless there is a memory board installed.

S - Steve jumper. This is always installed if the Dallativer does not have a memory entached to the mamory header.

Page 1



Configuration Jumper Positions

A500 DutaFiver

To assemble the DeteFiyer hard drive and etach it to your A500 follow these steps:

1. Remove the matel cover from the DelaFiyer by removing the 4 screws located at the front and rear of the chause

2. Inside you will see the DateFiver interface card, the 56 pin connector to the Amigs and loward the reat 4 standoffe and holes on the base of the chassis. From the hardware package remove the 4 screws. Placing the cheesis on its aids instell the screws from the bottom through the etendoit and up to the boltom of the drive mounting hole. Do this 41 ms e. Make these screws asing but do not over tighten. Be sure the 50 pin connector portion of the drive is facing the interface or the front of the unit.

3. Remove the 4 inch 50 pin SCS1 flat ribbon cable. This cable connecte the drive to the DataFlyer interface. One side is shacked to the 50 pin connector on the held drive and the other is attached to the 50 pin header on the DetaFlyer interfece. This cable must connect pin 1 of the interface to pin 1 of the drive. One way to check in to locate like 50 pin header on the interface. If will have pin 1 and 2 indicated on the surface of the board. The red lead en the cable (see Dagram C) indicates pin one of the cable and they should be on the same aids. This is requerdises of whether the cable has strain relief or not. It must be installed correctly or damage may result. See SCSI Cable in the General Information section of this manual



Wetning. The SOpin 4 inchribbon cable must be instelled correctly or you may damage your hard drive or interface.

4. Attach the LED connector from the cover to the 2 pin header labeled "SEL".

5. Next attach the power above to the drive. This cobie is attached to the inferiore and terminates in a diparticin white (ferminal) connector. Dris connector which has three wires alroyal to placed into the 4 position (mele) connector an rinh hard drive. You will notice that both end of the connector as as shaped like a 'CF. This is to prohibit pluggling is in backward, Be serie the connector is pushed in a lite as at will go. See Degrand.

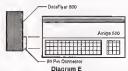


6. Now replace the cover using the 4 scraws that were removed.

7. Turn oh the power to the ASOO.

8. Hemove the plastic expansion bue cover from the ASOD. It is found on the loh hand side of the computer. It enable in place. Behind it is the BB pin Amige expansion bue that the Detailing must plug anto. This gives it access to the computer and its operating system.

9. Align the Deterfly or 85 pin (formella) connector with the Amiga (court edgra) expansion bue. When you are sure they are aligned properly press firmly with one hand located on the opposite (postale) and the chaselo and the other hooling the computer in place. The Deterflyer chasele chaud be reacting an very cidale to the cash of the Amiga whon installed. See Discrem.



A2000 DetaFiver

To install the DataFlyer herd drive into your A2000 computer tolidy these steps:

Configuring the DeteFlyer

Ta configure the BetaFlyer to your system see the section Configurety the DetaFlyer and Diagram A on pages 1 and 2 of this manual.

installed no a hard card,

e. Attach the 3.5 inch hard drive to the Interface by using the 4 standofts and screws previded.
Place the standoff is between the drive and the interface. Check that the screw is not too long and southers the circuit board of your drive. Be sure the drives 50 pin SCSI connector is toward the 50 pin header on the DateFiger. See Diagram E.

Paga 3

2. Remove the 4 noh 50 pin SOSI that rickon soble. This cable connects the drive to the Bull-Syre Inferface. One disks sets sharehold to the 50 pin connected on the had drive and the other hall attached to the 50 pin hadder on the Detelliper Interface. This cable must connect pin 10 ft the Interface to the Other Syre (to the Interface). Nevertheless the Interface to the Interface, it will have be in 1 end 2 feedbased on the unified of the board. This red leads in the cable (see Organz IC) protections pin and the cable (see Organz IC) protections pin and the cable (see Organz IC) protections pin and the Cable (see and they alreaded bean of the came size. This is required see of whether the cable has sit on relative or IC. It must be that find one of the Interface of the Interf

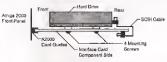


Diagram F Mounting Herd Drive Onto Interface in The A2000

Werning. The 50 pin 4 and ribbon cable must be installed correctly or you may damage your hard drawn or interfere.

9. Next attach the power cable to the drive. This cable is stretched to the interface and ferminales in a 4 position white (smalley connector which has three wree hould be placed into the 4 position (mails) connector on the just drive. You will notice that both ende of the connectors are shaped like or '0". This is reportible plugging in labetweed. By sure the connector is extend in set are at valid on. San Discrete.

Installed in the drive bay.

The 3.E Inch hard draws can who be held led in the empty draw buy. If the lade send you would be able to a bitter a bright poly SSSI cable. Their as variable is on the optional cable if it described in the applicant section of this minimal. However the cable is standard and in not dealer both IBM and Ample all both their titue. If you have shown and no monty you Disself yet in this direct better to comply and baself yet in this direct better to comply and baself yet in this direct better to comply and baself yet in this direct better to compact by of the hard driver as despitable as yet loyelf.

Note: The DataFlyer has several component positions that are designated and not filled or installed. There are two vertices of the DataFlyer laterlace that share the same printed circuit board. This saves you wroney and above you the opportunity to upgrade. See the Gangret information Section of this menual.

Instating the Interlace

I Turn all the power to the A2000

2. Remove the 5 screws that hold the cover in place and lift at off.

3. Looking down over the computer you can see the Amiga and IRM expansion state. The DelaFiver interface will be bigged into one of the amobe among plots. If you have configured your drive as a hard card with the drive on the rear of the card place the DataFlyer unit into the family lot. If you are using the optione's eight place it in the first slot. This keeps the width of the drive from using two state. If a lithur signs arm empty and this is not an issue than a may be placed in any skyl. If you placed the hard drive in the bay then the interface can be placed In any sixt. Chack the manuals of your other cards to determine if there is a preferred also or order



4. Orient the interface with the front of the interface allding into the pleatic card guide in the front of the A2000 and the dold card adox constrator of the interface into the expansion slot. When you are sure of the alignment prese down firmly onto the top of the card. The interface card should be seeted completely into the slot.

5. Altach the LED connector from the Amigs to the 2 pin "SEL" hander on the too left hand normal of the interface. The connector form the Amina has a Spin connector with Swices. Se avis that the 2 pins from the header are connected to the 2 positions that have wires. When Your drive is bootion look for the LED light to fleeh on and off. If the fight doze not live the o you must reverse the polarity of the pins. This is done by disconnecting the 2 oin header and reversing the connections.

FORMATTING THE DRIVE

One of the major teatures of the Date Ever is its a sey formatting software. There was a time that you purchased a drive and had to weds through ions of information just to get if formatted. Now the DateFiver makes diss autometic ears part by made. Late assume you have a Quantum 40 magabyta drive attached to the DataFiver and we ward 2 paditions. Look in your hard drive manual and be even that the bott number of the drive is between 0 and 6.

Running the DateFiver Installation Program To formal your drive perform the tollowing:

1. Make a copy of the original Auto-Install disk

Page 6

Place life Auto-Install disk in dio: and turn on the power to your Amera. There will be a 50 second dalay where nothing appear are be occurring a be passent. This will only occur when formating a new drive. Spon 6 will after to food the Auto-Install disk and the familier Workbrinch acreen will appear.

PLEASE READ THIS

The first time you format your drive there will be a one time 60 second delay when powering up the computer.

2. Other the Auto-Install disk window and saled or click twice the Install-HD won

3. A window will appear on the screen and the "Date Flyor hard drive installation program" will elect. In the following the "XXX" designetes what is profed on the screen.

The Program will type:

"Do you want to set DHO, Auto-Boot On Y/N"

Twos in "Y" and hit relets. Than: "Listing all SGS! devices"

Our Countilm will be listed:

"SCSI upt tol presunt. Dunetum PADS 940.40-94XXA 2" *Choose SGSI UNIT to formet (0-6)*

Type in "0" and hit return. Then: Type in "3" and hit return. Then,

"Choose interlative factor (1-5, 3 is standard)

"How many DOS partitions do you went. (1-12, 1 is etendent)" Type in "2" and hit return. Then

"Enter % (percent) of drive for partition 0" Type In "70" and hit return. Then:

"Enter % (percent) of drive for partition 1"

"Do you accord those natematers 2 V/N"

Type in 1001 and bit return. These "Perition 0 -> 25men"

"Pertition 1 -> 16map" "Drive total" 41 mag" (Numbers approximate due to munding)

Type 5c' and hit return. Then: "Do you want to use Fact File System, (v/n)

Type "y" and hit return. Then:

"Enter Volume designator (DH is standard and required for Auto-boot"

1yps 19th and attratern, (DO NOT TYPE DNO; Then: "Continuing luther will DESTROY as date on the hard drive." Do you wish to continue to format and prop will [0] (yin)".

Type "y" and hit return. Then you will see:
"Formating"
"Format complete"
"Oresting mountlist entries"
"Mountling partitions"

'DHO:

"DH1."

The actual formating will depend on your drive. Our Quantum will not a liew exconds. Some driver may be as long as several injuries. Then the peoplem will automatically copy Workbenh from DF0: to the first partition (DH0). The will take about 3 minutes. Then the program will ornal.

"Program Enlehed"
"Remove disk and reboot"

Your done. New see the section on Using your DataFiyat is copy your software programs over to the herd drive and lake edventage of the incressed speed and periamiscos. Remember that each program has its individual requirements and reading that section is nicessery. If may save you is lot of time.

For additional formulting or customizing information see the section Contomized Configura-

REMOVE THE FORMAT ICONS FROM THE WINDOW OF DHD: SEE GENERAL INFORMATION SECTION

USING YOUR DATAFI YER

General Intermulton on Hard Drives

on the disk it that were to hancen.

Your hand disk drive may be accessed by your programs or by you just as the Poppy draves are used. While your first lipppy drave is known as until DFG. (drive, floopy, und zero yellur first hand disk drive is known as DHG; (drive, herd, unit zero). One physical hard disk drave may be partitioned into two or more logical disk drives, and so cressed as DHG. DHF: and so on.

The DetaFiyer formal sequence will ask you how many partitions you want and all that is required as to enter the number. We suggestyou by two partitions until you become femiliar with your specific requirements.

Sating up and taking advantage of your new DataFlyer hard draw in greatly in hanced if you have a working knowledge of Shall or CLf for the AmicaDOS operating exciton.

Hard disk disadvantages are few, but importent. The disk itself is taglis. Because at this mast of the news drives such makeship part is the heads when the power leturned ell. This is done to protect the division is it suffers a short kits being dopped afron a table. In such a seas the resolution that have been a such as the substitute of the division of the divis

Even with autoparking lead in it is stylestable to an relax caution when handling the drive. Also the storage modurum agrants by not removable like of loppy dark. However, if this is inportent there are drives that have removable medie such as the Syquest. The DetaFysic is also competible with these types of drives. Finally, the drive is physically fager and hearler than a toppy dark form.

Do's and Don'ts of Using a Hard Drive

DO back up the date on your hard disk drive often. We recommend a commercial backup program like Quarriellack, "There are few lower feelings than just realizing you have to reformat your drive end it isn't backed up. You may not bettern a right now but this is the most important paragraph in this manuel.

DO read all of your frutruction manual.

OD offlow the hard disk for behalf is internal file structure at power an. Occasionally, the Socious is in the direct will detect continuous about fire sections and file chains. The file's light insyltants for environ limitative as at hiddly a Good like housekeeping. Lat the drive continuous, allow possions is analysis, but necessary, both turn the power offlow of setting for selectory computer after according the hard disk drive for any reason. This is critical, ALL DATA COULD BE LOST? I Arhapido DAS has not completed opticaling necessary lines and the hard disk. Then may not be complete even though it appears that all earlying a forwheld. What is lissed 25 seconds after this late Locanian dives given the hard divide before but unique for a recoloring. Appart, this after the late Locanian dives given the mail drive before but unique for a recoloring. Appart, this this is a reconstruction of the second s

DON'T subject your hard disk to physical shocks...ever. A drop of ane such onto a table for can severely damage your hard disk. Great care should be taken to use the original shipper when a hipping ar transporting your drive.

DON'T block the ventilitiant slots in the top or bottom of your hard disk drive. Place it on a smooth, hard surface "such as a deak top. Don't set books or disks on top of your drive.

DON'T touch the exposed connections on your computer, SCSI controller or the bottom exposed nection of the bard drive.

uto-Booting

he eule-booling function will week only with a Kokerant 1.3 in the ASOG or ASOG. You can determine the version of the Keckster ROM by booting the computer without e disk in ditor. It is ease for Workbarnot 1.3 then the Keckstar version is 1.3 if it sake for Workbarnot 1.2, then the Keckstar version is 1.3 if it sake for Workbarnot 1.2, then the Keckstar it is version 1.2. It you wish to defent the eule-booling just hold down the left mouse boutton during the book executive. See Configuration the Dalather at this manufacture of the Dalather at this manufacture is the section of the Configuration of the Dalather at this manufacture.

hastelfng Software on Your Hard Drive

Great carr must be taken when transfer ing your self yet to programs that the engine it loopy program disk to the hard drive. This is some thing that must be dense a sactly per the individual.

programers quitements. The good news is knowly here to be done once. Because of this most software manufacturers will provide a fissal drive instellation program that lakes care of their programs individual requirements. If impossible, it ame ure you will agree, for our user many earlies people to be it smills with all the software propriate and their specific needs.

QUESTIONS CONCERNING THE INSTALLATION OF SOFTWARE PROGRAMS ONTO THE HARD DRIVE ARE BEST ANSWERED BY THE MANUFACTURER OF THE SOFTWARE.

If your softwere does not include apecific instructions or an installation program, some general guidelines may help.

Generally, simply moving the program isone to the hard drive window will not work. Most of programs will have like (without loops) which are required for the program fortun, also, an ASSKIN statement will generally be required in the stantig-sequence (located in the S) directory to so the required volume name to the hard disk.

The CL command COPY DTO to DTO. ALT will transfer all the like but with move some like activability active-section with headed not destribly be changed on the haddlark. Further, the volume name must still be added to the startup-sequence to eat the correct delectory. The above scopy command may be used it is not effectory is created on the haddlark, but it still gotes the other delectory, were other which headed by the other delectory.

to make eigments at this program work with other programs and peripherals. The volume name remains a problem.

The best way to fastall a program is to follow the instructions given by the program's sulfiger.

or manufactures. But if the program has no instructionaler use one hard drive, the sod user (you) must take the responsibility of exemining the tission floopy disk, creating appropriate directories, and then copying the programs and files to the vertice directories. This may take some time. An example todawe:

The program is DELUX PAINT II, from Electronic Arts.

DP II Key Disk*

Creats a new drawer on the herd disk.

Copy the Lo-Res and Brueh drawers and their contents to the

Copy the Hi-Resend Interface draware to the new drawar, Copy Dipelint and Dipalint, Info to the new drawar.

DP III and Disk-

Copy the Mod-Res drawer and its contents into the new

copy the contents of the Brush and Lo-Res drawers to their

And thun:

Determine whether you with sed the ties Peth, c/Sigtle, and devs/Printer and install them in the appropriate directories, if you need them.

Add the commend 'ASSIGN DPAINT'pathname're the boot disk startup-sequence, whate pathname is the directory route to the Opaint it drawer (for exemple, dhe Opaint or dhe Oraphics/Opaint).

The previous section appeared, in more detail, so: Getting Software to Run on Hard Dieks, by Michael Colligon, Amiga Mell.

Cleaning Up the Screen

if your hand disk drive starts with a large number of icons seemingly stacked one on top of the other in a too-small window, move things around with the following procedure;

Eirst, use the left mouse button and increase the window size with the sizing gedget in the lower light corner of the window. Use the right mouse button, and select snepshot from the Spacial menu in the loy line of the acreer display.

Then, end at a time, drag the icone you wish to move to thair new locations in the window. After moving each icon, sated is nepthot again. When you ere satisfied, close the window and re-open it. Your icone will be placed where you left them.

An attentive method allowes the operating system to determine which kone go where on the screen. Enlarge the window with the alloy good, are of them set to clean up broin in Special mere. Hold a SHET key down, more the mouse pointer to each box, and select the know with the let mouse botton. When all kone a re-selected, release the SHET key and eslect enaphot for the Mspocial menu.

TROUBLESHOOTING

General Hinto

Troubleshooting theory is based on 3 basic methods: 1.isolating the problem.

Do one thing at a time. If it works, go prioritis next. If it doesn't, the chances are the problem is isolated in the last step. Examine it carefully. Build on what you know works.

CHANGE ONE THING AT A TIME. IF YOU CHANGE FIVE THINGS YOU HAVE FIVE PLACES TO LOOK EOR PROBLEMS.

How many elements are there? Test them individually. Substitute it possible, it your DataFiger works on a similar ASOO we can suppose it legate machine. It is doesn't work on a thinde then it is isolated to the hard drive or modifications to the hard drive like the stanupsequence.

2. Backup Backup Backup Backup

If we are to build on where we know works we must be able to get back to whet wee last working. Before you change enrything, care you chareveste with you have working now? Do you have a copy or know the configuration of what was working That is expectedly their in the yet stages of learning how louse a hard drive. These is lost we in using the toppy but with a hard drive it because of the amount of data at risk.

BACKUP ANYTHING YOU PLAN TO CHANGE THAT MAY CAUSE TROUBLE. ESPECIALLY THE STARTUP-SECUENCE

3. Document your search.

What have you used? When there are combinations it become additions to recall what worked and what don't. This will also asset time if there are saveral elements as you will not be trying the same things more there ence. Keep these notes when calling customer services.

General Problems

Booting

If the acres in its blank without even is Workbench request then you might have 1.2 version of Kickstart. Auto-boot will only work with version 1.3 of Kickstart. Remove the jumper designated 11.3° and in the format sequence choose "NO" when asked "Do you want to est DHC Auro-Boor On VIN".

Henge while booting.

Dis you change your startup-esquence? If you replace the changed his with the original that worked. Isolate what was changed and look at that command for enything that is incorrect.

Unusuel LED or drive activity.

When you power up not the drive light blocks allowly or allays an end the system appears to be vary show in bodies. Do NOT REBOOT. AmignaColo en plu a veillament in the disk. This may take a mynther a from 10 4d minutuse depending on the size of the drive and the number of particism. This cam possibly be varieded in the future by welling its seconds for all takes. The system will soon and last of a size of the size of the

LED Both! steve pri-

After determining that AmgeDOS is not to trying to validate the disk it may mean that the polarity needs to be reversed on the wires going the LED. See the action installing the Herdware in this manual.

System crashes copying large files.

Policicals while frendering very large illumin in you probably have non-out of RAM memory. You creats while frendering very large illumin in you probably have non-out of RAM memory. You will need to force as the stack acts among the CLI STACK common of. The system defect sead a rise at 4000, increase mit in purpose to 8000 or 1000 or exported in the large fit in sead and the sead of the sead of

DiskDoctor

I you got the measage there are re all problems. THY TO USE DISKDOCTOR AS A LAST RESORT. Betting or copy all files that combe copied to enable partition or to a toppy. After number DISKDOCTOR as a LAST number DISKDOCTOR and the property of the combet of the formal products on all distances to less. This is usually number of the programs your sea using it extuengs employ problems. What did you change less? If I've to local all as a specific programs and stop using man program. This may take

A500 Formetting

if your drive lansw and your scelve an error code when the drive was being mounted, quickly furn the power all and on. This will reset the drive. The will all power surge required to spin up a jotely invenders any extremely the amount available. Excellence the drive without one drive without the drive with the drive without the drive

it solvening all the vacy down will allow the drives loter nel rests to clear it to be formatted. This should not occur effect he histal attempt. Also be sure your drive is stroom temperature before trying to formet the unit.

Optimizing your drive.

Backup-Ba

Softwere problems

The most common problem with a new hard drive is the iscorned hatahatism of the swin exprograms. While the exception is the hard drive does not discriminate between programs. Build on what we know works. If his drive fermalised correctly sent the Workshoush that we scopic to the his proposed to the land prantion opene and separated correctly then this exception are great we have a wooking drive. If it did not go through the fermalising sequence are Hatahames Problem on this section.

From this base add one program at a time. That each and be convisional that it is operating properly through book and haddwrite tests. Then go onto the next program, if the system reads and white consolly with one program and does not with a nother than the chances are great the problem is isolated to the non functioning program.

IF A PROBLEM CAN BE ISOLATED TO THE LAST PROGRAM ADDED CALL THE AUTHOR OR MANUFACTURER OF THAT PROGRAM FOR HARD DRIVE INSTALLATION INSTRUCTIONS.

If you test that the drive is not operating conectly with the stenderd. Workbench program that is first xeed with the prop program then call sustomer service.

Hardwere Problems

Bullow slowing snything a few check, all connections and cables. On the ASOB be sure the interface is exertly connected to the Analysis be. In the hassis can be against the computer to the Analysis be. The chassis of the against the computer case and exilt have missed all have missed the connection to be sure than are checked as a sold connection. On the ASOB colorable, to see if the interface is seeingth of the connection of the AsoB connection of the AsoB colorable connection to the AsoB colorable connected to the AsoB colorable colorable connected to the AsoB colorable connected to the AsoB colorable colorable connected to the AsoB colorable c

Remove all peripherels that are connected to the machine and add them back one at a time. That each individually as a is added onto the computer,

Try your DateFyer drive on enother computer. It is works, look for what is different with your computer or it may be defective. The bus can be defective and the restel the computer can operate correctly.

8 if does not work on eachier computer by to isotate it te either the hard drive mechanism or the interface. In possible by the hard drive on another interface and the DateFyer Interface with another drive. It is in the hard drive anotherism it must be replaced. However, it is a the hard drive anotherism at must be replaced. However, it is a the hard drive another interface call in suctioner service.

CUSTOMIZED CONFIGURATIONS

Amexil Driver Version 1.7.7 or higher of the DateFiyer authware includes a special driver developed to run

Amaxit

parition up and running.

1. Formal your hard drive with two Fast File partitions. One for the Amex and one for the Amiga DOS per the format sequence. Call them both "DH" as suggested in the format or prep sequence. Our Intention is to make the second partition the Amex partition. 2. After removing the Auto-Install clisic and rebooting from the hard drive you will need to make

the Amaxil software. It is found in the DEVS directory ea "ExpSye.amhd". To create an

Amazili partition on your hard drive please complete the steps described below. We are not

in a position to perfect your use of Amazit. However, we will do the best we can to get your

some changes. Using the AmigaDOS editor go to the DEVS; mountlist tills of DHD; Move your currendown to the second perintion or DH1; and rename it from DH1; to AMAX; for the series mountful that is now celled AMAX" be sure that the "atount-0" entry says "0" not "1". If is doson't then make the change. To edit the tile type the tolkwing:

ed distri-(return) ed des symountliss [return]

You will get some screen activity and the mountain will appear on the screen. Using the up/ down arrows and backspace keys make the modifications described above. To exit the adapt

and write the new information to the life type: [return] this the except key then the x key than hit return] eac 1

You are now back to the shall screen

3. Copy the entire "mounties" file (the one just edited) in the DEVS; directory of DHO; over to the DEVS: directory of a COPY of the Data Fiyer Auto-fratel disk located in DFO:.

4. Now power down and reboot holding down the left mouse button. This will cause you to boot from DFO: and defeat the auto-boot function.

5. You are now booted with the modeled copy (different mountlist) of the Auto-Install disk still is DFC; double click the Auto-Install disk and open a Shall window and type the following:

mount DRG: frelatn) ed DOM: Freturn dublish DHO-Iraturn Seaucoboot On [return]

5. Remove the Noppy, power down and euloboot from the hard drive. You should have DHO:: mounted. If you wish to run your Array spitware you must open Shell and manually mount the Arrex partition. From Shell type the following:

meson AMAX: [return]

Then follow the Instructions that ere in your Amax menual.

Note do not use the Auto-Instell disk that you just modified to format any other hard disk. Page 13

Manualty Formatting the Drive. 1. Create a Mountfiel.

Formatting Multiple Drives

Copy the Autoinstell disk. Modify the mountlist located in the Deva directory by changing the Fast: entry to OHO:. Also change the surface. Blocks per track and low and blob oxinder information to match your drive. Remember that 0 to 9 cylinders is a total of 10 cylinders. Save

this information onto ditt: 2. Low Level Format Drive.

Attach the drive alther on the 25 pin expansion connector or in series with the existing 50 pin ribbon cable. When you marks format routine it will notify you of the existence of the new unit

and extect that unit to be formatted. Answer the questions as indicated in the tomat section.

Boot the system with the modified Datefver AutoInstall disk in drive dig., Enlarge the

window to expose the icon "Forms HHD". Click this icon to law level format drive.

3. AmigsDOS or High Level Format Drive. From shall type the following instructions:

[return] System/format drive DH0: name "mydrive" middle freturni Copy DF0: to DH0: all fre turn] ed DH0: freturn1 defdisk DH9: [return] Setastobnot On Irefurni

Mount DHO:

That's it. Remove the disk in di0; and reboot the system.

Surviving a Creahed Partition

If you have a partitions and only want to re-formations of them, do the following:

1. Autoboot the machine se you would normally 2. From shall type the following instructions to high level formet the drive:

System/forms drive dh2: name "mydrive" quick [raturn]

In the above if you have two partitions and you are only formatting the second then use "distant Inelead of "dh2" etc. A low level tornet should not be required.

has started to load and the copywife information is on the screen type the following: ctrl d (this breaks the startup sequence) Intertest PMRs freturn) system/former drive dhill; same "prydrive" quick [return]

sony df0; to dh0, slf freturn' ed db0. return delibek disibfrei urni

Setautoboot On [return] That's 6. Remove the dark in d10; and reboot the system.

Pega 14

Things are a little different if it is the first or boot part from their needs to be formatted. Holding

down the left masse button boot the mechine with the Autoinstall disk in diff.: When the disk

How to modify mountiful intermation.

If you wish to modify the mountlist information from the information that was creeted by the format program you must do the following. Crante a new mountiest, reformat think and low). the drive shing the new information and asset the sutoboot.

f. Back up the information on your hard drive.

2. Autoboot your system from your hard drive normally. After it has booted insert a COPY of the Auto-thate II disk in drift. Open a Shall window. To add the mountlist in dhift, which contains your current developmental information) type the following from the it.

od dbill: [Battern] ed development last l'Asturni

3. A new screen will appear and there will be some screen scrivity. Using the up down strows and backspace key find the mountlist for "DHO:" and make the desired changes is the mountlist. There will be several mountlists and other information to scroll through To write the nsw information onto dh0" and exist the editor hit the "ESC", the letter "X" and [Return] keys in succession se shown below. The disk activity light on dh0; will briefly turn on.

ESC x

(Return)

4. To write the new mountlist information from db0; to the devs/mountlist life on the Auto-install disk in diff. type the following:

copy dhordeys/mountlist to dio devs/mountlist. [Return]

5. With the modified copy of the Auto-Install diek still in di0-, power dawn and reboot holding down the left mouse button. Your machins will boat from the modified Auto-Instell clisk in d10. and not from the hard drive. The herd drive has now read the new mountlist information from the disk located in diff. even though it is not mounted. We now need to permanently store onto the hard drive the new eutoboot information. To do this double circle the Auto-thetall disk, open 8 Shall window and type the following:

mount DH0: freturn? ed DMn: [festurn] deldisk DH0: Ireturni Bernutoboot On Ireturn 1

6. Whit 10 seconds for rive activity light on the hard drive to go of. Thai's it. Remove the Auto-Install disk from dio, and reboot

Your hard drivs will now sujoboot using the new information.

OPTIONS

For detailed information on the options available refer to the fiterature included in the box. The products are everlable from your dealer. If your dealer does not carry what you want you may purchase deactly from Expansion Bystoms. Call 415 856-2890 or Fax 415 856-5131 for mars information

DATAFLYER RAM

Supposted Ratell \$129.00 U.S.D. An optional mamory board is available for the DataFiver Interface and will provide up to B megabytse of innreased feet memory. In the DataFiver 500 it mounts on the memory

header end fits nestly inside the chauses. In an Amigs 2000 it will plug onto the mamony header eaving one slot or can be placed into one of the empty elots. The memory board uses SIMM module type memory. Yes, you can instell it yourself without any lear of bent pine. If you use 255X6 type memory you can expand in increments of 172.1, or 2 mag electes. of mamory. If your use I MbX8 than you can expand in increments of 2, 4 or 8 madebytes. The memory card can be externelly powered if required you prie of the two optional power supplies evellable.

POWER SUPPLIES

If you have the DetaFlyer 500 the interface (elmost) all 3.5 inch hard disks can be powered from the expansion bus if you are running one extra flooppy drive and a low power Base Board memory expension. Depending on the type and number of perioherale shached for he ASOO if may become advantageous to power the Date Flyer 500 separately. To do this we offer two power supplies. One is internal and meant to power symything and one is external and meant to power only the memory board.

DATAFLYER 500 POWER SUPPLY Supposited Retail \$69.00 U.S.D. The DateFiyer 500 power supply mounts internally and will power the DataFixer Plus Rev.1.0 card, The DeteFiyer RAM and # 3.5 Inch hard drivs. This ewitcher supply turns on autometically when your Amign is powered up. It is coof running and exigmetically BENSHE at international input voltages eliminating the need to adjust jumpers.

DATAFLYER HAM POWER SUPPLY Suggested Rotell 529 00 U.S.D. The DetaFiyer RAM power supply is an extensel table mount power supply that is meant to power the memory card only. The international voltage model is elightly more expensive.

Hard Cord Antin Supposted Retail \$29.00 U.S.D. Mounting hardware teprovided to mount the hard disk on the rear of the Exterior interface. Metal rails are also available to mount the hard disk behind the interlace and expoort the essembly from both ends

SCSI PASS THROUGH Suggested Retail \$17.95 U.S.D. Additional cables for extending the 26 pin SCSI bue to the guileids of the DetaFixer 500 or to the outside of the A2000 are systleble. The learn devoces can be added to the SCS has

POLICY INFORMATION

Registration and Warranty

Please send in your registration card immediately. This must be on life for warranty work la be done.

The Expension Systems was only does not cover the hard drive you place in the chassis or mount onto the linearce unkneepurchased directly from Expension Systems. Places read carefully the werranty localised on the back cover of the manual.

Return Policy

Before sourning any merchandise you must have a warranty card on this and a Rotum Authorization Natheur. This combet is decorated from an Expension Systems assumes service appresentative. Package from the regularity bush give original packaging materials. This is a specially important are unaformative asset disk mentanens, how a time materials. This is a specially important and an area of the materials and an area of the bush will be refused.

If you purchased the Destifyer instance notice chastis and purchased the held disk mechanism from mother sources you may leave to cell with more with not us company to get your problem solved. If you appeal to move us soon both your intention and or be high party your problem solved. If you appeal to move us soon both your intention and or be high party. We cannot be responsible for the condition of the drive which it arrives it in not packaged properly.

Customer service

The best place to Dokkin source to your quantients and earlies as from the dealer where you prochessed the product. I you must extern a directly from the minutescene call at 66-6280 between 200 PM and 500 PM Monthly hough Pricing Pacific Storage and 66-6280 between 200 PM and 500 PM Monthly hough from pricing Storage and 66-62-800 between 200 PM and 500 PM Monthly hough risk of the dealer of the size of the siz

GENERAL INFORMATION

**** PLEASE NOTE -- AS DF 5-1-91 DAR PHONE ! IS 19101 654 2870.

Remove Format Icone

After you have formatted your drive it is was to remove the format loons from the screen. In the event they are needed again copress will be everlable on the Auto-Install disk. Just click the loon, held down the button they louding as to the technica. Do this forboth the MSTALL-HD and FORMAT-HD kone. Empty trash from the pull down menu et the top of the Workhards were

SGS1 Cable Information

The SCSI Cable is a Signripbon cable the connects the interface to the herd drive. A must connect pro cole of the litherface with pro not of the drive. This means that the cable must be interfaled connectly. To its use this most cables used one or all off the following ways to deletinity be not not of the cable. I. Locate the reased or embossed portion of the plastic connector. This file list of

corresponding alot in the drive to prevent the cable from being installed upside down.

2. The cable has the tend, that is pin one, polored rad.

3 The pin 1 side of the connector may be designated by an arrow amboused into the plastic.



Future Upgrades

Expansion Systemal ocurrently working on the DataFyer Pits. This interface will have both the SCSI and IDE (AT) insirfaces on the same card. This allows you to ship for the best disal and purchase which draw. Yes, you will be able to run both at the same time. This interface will not work with EVERYIDE type drive so contact up for a current list, if you wish to upgrede to the DataFyer. Pits contact our office for the upgrade program.

DataFlyer™ Installationsanleitung

Kontigurierung und Mentage

Wenn sie Kickstart 1,3 benutzen und automatisch boolen wollen, muß der Jumper 1,3 (zwischen den ROM-Bausteinen) gesteckt sein. Soll die Platte mit Kickstart 1,2 als nicht autoboolend installient werden, ziehen sie den Jumper.

→5 EN- Jumpen Wenn dieser Jumper gesteckt ist, erhält die Karte ihre Stromversorgung über den Bus.

SEN - Jumper wird nur bei Einsatz im A500 mit separatem Netzteil benutzt. Normalerweise offen

C - Jumper auf Pin 11 & 12 des 86-Pin Bus: Diese Jumper müssen gesteckt sein, werin kein Memory board (DataFiyer RAM) auf dem SCSI-Board Installieri ist.

S · Jumper: Immer installert.

Slecken als das SCSI Flachbandkabel (56-polig) so auf die Pintelste das Kentrollers, daß die Seile mit der oben Markierung am Kabel auf die Pins 1 8.2 zeigt. Dieses Kabel wird anschließend auf die Festipalte gesteckt, und zwar so, daß die rote Marke auch dort auf Pin 1 8.2 zeigt. Marche Festiplatten haben einem Anschlie mit kodelrenn Stecker. Wichtig ist, daß Pin 1 vom Kontroller mit Pin 1 von der Festipalte verbunden ist, sonst beschädigen sie eventuell ihren Rochene der Kontroller bzw. die Platte.

Stecken eie jetzt den Kontroller in einen A2000 Steckplatz (bei der Bodega Bay mit den Bautellen nach unten zeigend) .

Montieren sie die Feerplatie mit den beillegenden 4 Schrauben im Gerhäuse. Sie köhnen eine Silmitier Platte (3,5") auch als Filocard direkt auf die Unterseite des Kentrolters montieren, Benatzen sie dazu die besliegenden 4 Plastikroiten als Abstandhaltet zur Platine, um Kurzschlüße auf dem Kentrolter zu vermeiden. Das beillegende kurze SCSI-Kebel dient dann zu Versetgrung der Platte, Die Spannungsversorgung erfolgt wahtweise vom Netzteil des Rechners oder über das Kabel von dem Kontroller (Rok-Schwarz-Gehr).

Verbinden sie nun das SCSI-Flachbandkabel mil der Festplatte.

Nach Verschließen des Rechners können sie jetzt die Fesiplatie installieran. Fesiplatien, die wir mitlielem, sind bereits vondstallien.

installation

Nach der Morrtage gemäß Abschnitt 1 legen sie bitte die Diskette "Auto-Instett-Disk" in das Laufwerk DF0 und schellen ihren Amiga ein.

Bei der Erstinstalletion einer Festpialte bleibt der Bildschirm ca. eine Minute dunkel, bevor der Rechner bootel. Dies ist ganz normal.

Jetzt erscheint euf ihrem Bildschirm das ICON Dete Flyertnstall.
Doppelklicken sie dies und wählen dann im erscheinenden Fenster Install-HD mit
Doppelklick. Jetzt stantel der Instellationsprozess. Hierbei werden ihnen Fregen
gestellt, die sie besantworden müssen. Diese lauten wie folgt:

Do You Went to Set DH0; Auto-Boot ON? (Y/N)
Wollen sie die Plette DH0 auf "Automelisch booten" stellen?
(Y∞Ja, N∞nein)

mit Y beantworten.

Als nachstes listet der Bildschirm alte 6 möglichen SCSI-Devices auf und zeigt an, welche engeschlossen (PRESENT) sind,

Sie sehen: Choose SCSI - Unit to format [1-6]

Hier wählen sie aus, welches Gerät sie gerade installieren möchten und geben die entsprechende Nummer (1-6) ein.

Jetzt erscheint: Choose

Choose tNTERLEAVE factor (1-5, 3 is standard)
Wählen sie den gewünschlen (NTERLEAVE Fektor (1-5)

Geben sie die gewünschte Zahl ein (meist 3, de Stendard).

Sie sehen jejzt die Laufwerksdelen (Sektoren, Köpte, BijPerTreck & Cylinder); Sie werden nech der Anzehl der gewünschlen Paritionen gelregt:

How many DOS Pertitions do you want? (1 - 12, 1 is stendard)

Geben eie die gewünschle Anzahl ein (Sie sollten die Anzehl so wählen, daß ebhängig von ihrer Plettengröße eine sinnvolle Speichergröße pro Partition entsteht).

Wenn sie das Leufwerk in mehrere Partitionen eufteilen, Irägt das Programm automatisch nach der prozentualen Verteilung der Partitionen:

Enter % (percent) of drive for Partition 0

Danech wird autometisch nach der Prozentzahl der walteren Partitionen gehagt. Nech Eingebe dieser Deten erscheint die Aufteilung der Partitionen in Megabite mit dem Hinweis:

" Die Anzahl der MB ist gerundet.

Dann erscheint:

Do You Accept These Parameters? (Y/N) Sind drese Angeben richilig? (Y/N)

Geben sie Y ein wenn sie stimmen, N wenn sie diese Parameter ändern wollen. Das Programm fragt denn wieder nach der Anzahl der Partitionen.

Denn erscheint;

Do you went to use FastFileSystem (FFS)? (Y/N)
Wollen sie FastFileSystem (FFS) benutzen?(Y/N)

Wir emplehlen Y.

Jetzi erscheint:

Enter Volume Designator (DH is stenderd and required for Auto-Boot)
Geben sie die Leufwerksbezeichnung ein (DH für Auto-Boot)

Geben sie DH ein.

Jelzt sehen sie:

Do you wish to continue to Format and Prep Unit [..x..] ? (Y/N) Wollen sie weitermachen und das Laufwerk [..x..] formelieren?

Gleichzeitig erscheint die Wernung:

Wenn sie weltermachen werden elle auf der Platte befindlichen Daten geloschi.

Geben sle zum Formatieren Y ein.

Jetzt wird die Festplatte formelien, Boolsektoren etc. werden monitiert und die Startdickelle mit der Workbench wird auf die Plette koptent. Am Ende des Vorgenge enlinshmen ein die Diskette und sterten den Rechner neu. Er bootel jetzt von der Pielst

Kopieren von Programmen

Legen sie jetzt eine Kopie Ihrer Workbench Diskette in das Laufwerk DF0 und kopieren sie das FastFileSystem auf ihre Workbench und diese dann auf die Festplatte. Dies geschieht wie folgt:

Legen sie die Workbench Kopie in DF0. Ölfnen sie das Fensler der Platte und starten sie SHELL, Geben sie folgenden Befehl ein:

Copy from DH0:L/FastFyleSystem to DF0:L/FastFyleSystem dann: Copy from DF0: to DH0:

" Dieser Schritt ist notwendig, um zu garantieren, daß das FasiFele System der Platte und Ihrer Workbench identisch sind, Diese Kopie der Workbench kann auch zum booten benutzt werden. Ihre original Workbench verwahren sie bilte an einem sicheren Ort.

II Für andere Soltwarepakete richten sie sich bille nach deren Anleitung oder setzen sich mit den Herstellern in Verbindung.

Wenn sie verenhentlich von einer Diskette mit unterschiedlichem FastFileSystem boten wollen, kann es sein, daß ihr Rechner nicht starte. Dies seigt sich in einem publierenden Licht der Spannungslempe am AS00. Bedingt ist dies durch Zurückschreiben einer klachen Adresse beim Suchen nach dem SCSI-device, Sie bahoben den Fehler wie folgt:

Schalten sie den Rechner aus, legen ihre Workberich Diskelte ein, halten die linke Maustaste gedrückt und schalten den Rechner wieder ein. Dadurch zwingen sie den Rechner von der Diskelte zu boden ohne hach der Festplatte zu suchen. Jetzt können sie ihre Platte überprüfen oder neu einichten,

Für weitere Fragen wenden sie sich bitte an:

EXPANSION Systems 44862 Osgood Road Fremont CA 94539

oder an

ETS European Trade Support Kanzleiweg 6 8011 Hohenlinden Tel: 08124-7767